Acknowledgements

- Student-level data were provided by the Louisiana Department of Education (LDOE).
- New Schools for Baton Rouge assisted CREDO with verifying the list of Baton Rouge public schools.
This report on *Baton Rouge* is one in a series of studies examining school performance across selected U.S. cities.

Performance is defined as how much academic growth students made from one year to the next.

The performance of students in Baton Rouge is benchmarked to the state average, accounting for student characteristics.

We first track the growth of Baton Rouge overall and by sector using data from 2013-14 to 2016-17.

We then further explore how one-year academic growth for the period ending in Spring 2017 differs by sector, school type, race, poverty status, English language learner (ELL) status, special education status, and gender.

Baton Rouge experienced flooding in August 2016. We do not model whether the flooding affected student performance in the 2016-17 school year or not in the analysis. However, as our findings show, Baton Rouge’s growth relative to the state average in 2016-17 was similar to that in the previous two growth periods.
Types of Charters

- **CMO: Charter Management Organizations**
  - To qualify as a CMO, an organization must oversee the operation of at least three charter schools. Further, the CMO must be the charter holder for all of the schools operated by the CMO.

- **EMO: Education Management Organizations**
  - To qualify as an EMO, an organization must provide services under contract to at least three separate charter schools, but does not hold the charter for any school they serve. The EMO must answer to the school’s charter holder in addition to authorizers and state governance.

- **Independent Charter Schools**
  - To qualify as an independent charter school, an organization must oversee the operation of a single charter school. The charter-holding organization may run the school directly or they may contract with an organization which provides services to one or two charter schools.
Presentation of Results

- The results display two sets of comparisons
  - The progress of Baton Rouge students is **benchmarked against the state average learning gains, accounting for student characteristics**.
    - Positive numbers represent better than average performance.
    - Negative numbers represent worse than average performance.
    - Significance in the difference between students in the city and the average state performance is represented by black asterisks associated with data labels.
  - The progress of charter school students within Baton Rouge is then **compared to the performance of similar TPS students within Baton Rouge**.
    - Significance in the difference between a student group in charter schools and the same student group in TPS is represented by colored asterisks associated with bars.
Measurement of Academic Growth

• Results are graphically displayed on two axes:
  • The left axis indicates learning gains of Baton Rouge students relative to the average learning gains of students with similar characteristics in the state, measured in standard deviation units.
  • The right axis displays the same learning gains measured in days of learning.
    • The baseline of 0.00 is taken to be 180 days of learning.
    • Positive performance represents greater gains in days of learning.
    • Negative performance represents fewer gains in days of learning.

• The table below shows a transformation of standard deviation units to days of learning.

<table>
<thead>
<tr>
<th>Standard Deviations</th>
<th>Days of Learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td>30</td>
</tr>
<tr>
<td>0.10</td>
<td>59</td>
</tr>
<tr>
<td>0.15</td>
<td>89</td>
</tr>
<tr>
<td>0.20</td>
<td>118</td>
</tr>
<tr>
<td>0.25</td>
<td>148</td>
</tr>
<tr>
<td>0.30</td>
<td>177</td>
</tr>
<tr>
<td>0.35</td>
<td>207</td>
</tr>
</tbody>
</table>
This menu includes links to specific analyses throughout the report. In following slides, the same menu is shown on the right-hand side.

**Roadmap for Graphs**

- **All Students**
  - **Overall Baton Rouge Results**

- **Breakout by**
  - **Sector**
    - **Further Breakout by**
      - Charter Network
      - School-Level

- **Comparison of Peers**
  - **Race**
    - **Further Breakout by**
      - Black Students
      - Hispanic Students
  - **Subgroup**
    - **Further Breakout by**
      - Poverty Status
      - English Language Learner Status
      - Special Education Status
  - **Gender**
    - **Further Breakout by**
      - Female Students
      - Male Students
Baton Rouge Analysis: All Students

Average One-Year Learning Gains for All Baton Rouge Students
Compared to the State Average Learning Gains, by Year and Subject

The 0.00 line represents the average learning gains of the entire state.
These results capture one-year academic growth for the period ending in the Spring of each school year (SY).
Sector Analysis

Click the buttons below for reading and math growth of Baton Rouge schools relative to the state average learning gains by year and sector.

- Sector Analysis (Reading)
- Sector Analysis (Math)

Roadmap for Graphs
- Overall Baton Rouge
- Sector Analysis
  - Charter Network
  - School-Level
- Race Analysis
  - Black Students
  - Hispanic Students
- Subgroup Analysis
  - Poverty Status
  - ELL Status
  - Special Ed. Status
- Gender Analysis
  - Female Students
  - Male Students
Sector Analysis: Reading

Learning Gains in Reading for Students in Baton Rouge Charter Schools, Baton Rouge Magnet Schools and Baton Rouge TPS Compared to the State Average Learning Gains by Year

The 0.00 line represents the average learning gains of the entire state. These results capture one-year academic growth for the period ending in the Spring of each school year (SY).

* Growth significantly stronger than that of TPS
* Growth significantly weaker than that of TPS

The graph shows the learning gains in standard deviations and in days of learning for different sectors over the years. Notable trends include a significant increase in learning gains for the Charter network in SY 2015-2016 compared to the state average.
Learning Gains in Math for Students in Baton Rouge Charter Schools, Baton Rouge Magnet Schools and Baton Rouge TPS Compared to the State Average Learning Gains by Year

The 0.00 line represents the average learning gains of the entire state. These results capture one-year academic growth for the period ending in the Spring of each school year (SY).
Learning Gains for Students in Baton Rouge Network-Affiliated Charter Schools and Independent Baton Rouge Charter Schools Compared to the State Average Learning Gains, by Subject

The 0.00 line represents the average learning gains of the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Click the buttons below for reading and math growth of individual Baton Rouge schools relative to the state average by sector. The top cluster of dots shows where individual charter schools lie on spectrum of growth and the bottom cluster shows that of individual TPS.
School Growth by Sector - Reading

Distribution of Reading Learning Gains of Individual Baton Rouge Schools Compared to the State Average Learning Gains

The 0.00 line represents the average learning gains of the entire state.
These results capture one-year academic growth for the period ending in Spring 2017.
The 0.00 line represents the average learning gains of the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Race Analysis

Click the buttons below for graphs showing the performance of Black students in Baton Rouge or Hispanic students in Baton Rouge relative to the statewide average learning gains for students of the same race.
Race Analysis: Black Students

Learning Gains for All Baton Rouge Black Students Compared to the Average Learning Gains of Black Students Statewide, by Subject

The 0.00 line represents the average learning gains of Black students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Race Analysis: Black Students by Sector

Learning Gains for Black Charter School Students and Black TPS Students in Baton Rouge Compared to the Average Learning Gains of Black Students Statewide, by Subject

The 0.00 line represents the average learning gains of Black students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Race Analysis: Hispanic Students

Learning Gains for All Baton Rouge Hispanic Students Compared to the Average Learning Gains of Hispanic Students Statewide, by Subject

The 0.00 line represents the average learning gains of Hispanic students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Race Analysis: Hispanic Students by Sector

Learning Gains for Hispanic Charter School Students and Hispanic TPS Students in Baton Rouge Compared to the Average Learning Gains of Hispanic Students Statewide, by Subject

The 0.00 line represents the average learning gains of Hispanic students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

* Significant at p < 0.05
** Significant at p < 0.01
Subgroup Analyses

Click the buttons below for graphs showing the performance of Baton Rouge students in poverty, Baton Rouge students with English Language Learner designation, or Baton Rouge students receiving special education services relative to average learning gains of students of the same subgroup statewide.

- Poverty Status
- English Language Learner (ELL) Status
- Special Education Status

**Roadmap for Graphs**
- Overall Baton Rouge
- Sector Analysis
  - Charter Network
  - School-Level
- Race Analysis
  - Black Students
  - Hispanic Students
- Subgroup Analysis
  - Poverty Status
  - ELL Status
  - Special Ed. Status
- Gender Analysis
  - Female Students
  - Male Students
Subgroup Analyses: Poverty Status Analysis

Learning Gains for All Baton Rouge Students in Poverty Compared to the Average Learning Gains of Students in Poverty Statewide, by Subject

The 0.00 line represents the average learning gains of students in poverty in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Subgroup Analyses: Poverty Status by Sector

Learning Gains for Baton Rouge Charter School Students in Poverty and Baton Rouge TPS Students in Poverty Compared to the Average Learning Gains of Students in Poverty Statewide, by Subject

The 0.00 line represents the average learning gains of students in poverty in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Subgroup Analyses: English Language Learner Status Analysis

Learning Gains for All ELL Students in Baton Rouge Compared to the Average Learning Gains of ELL Students Statewide, by Subject

The 0.00 line represents the average learning gains of ELL students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Subgroup Analyses: English Language Learner Status by Sector

Learning Gains for ELL Students in Baton Rouge Charter Schools and ELL Students in Baton Rouge TPS Compared to the Average Learning Gains of ELL Students Statewide, by Subject

The 0.00 line represents the average learning gains of ELL students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

* Growth significantly stronger than that of TPS
* Growth significantly weaker than that of TPS

** Significant at p < 0.01

The Roadmap for Graphs includes:
- Overall Baton Rouge
- Sector Analysis
  - Charter Network
  - School-Level
- Race Analysis
  - Black Students
  - Hispanic Students
- Subgroup Analysis
  - Poverty Status
  - ELL Status
  - Special Ed. Status
- Gender Analysis
  - Female Students
  - Male Students
Subgroup Analyses: Special Education Status Analysis

Learning Gains for All Baton Rouge Students in Special Education Compared to the Average Learning Gains of Students in Special Education Statewide, by Subject

The 0.00 line represents the average learning gains of students in Special Ed. in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

* Significant at p < 0.05  ** Significant at p < 0.01

Roadmap for Graphs
Overall Baton Rouge
Sector Analysis
- Charter Network
- School-Level
Race Analysis
- Black Students
- Hispanic Students
Subgroup Analysis
- Poverty Status
- ELL Status
- Special Ed. Status
Gender Analysis
- Female Students
- Male Students
Subgroup Analyses: Special Education Status by Sector

Learning Gains for Baton Rouge Charter School Students in Special Ed. and Baton Rouge TPS Students in Special Ed. Compared to the Average Learning Gains of Students in Special Ed. Statewide, by Subject

The 0.00 line represents the average learning gains of students in Special Ed. in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Gender Analysis

Click the buttons below for graphs showing the performance of female students in Baton Rouge or male students in Baton Rouge relative to statewide average learning gains for the same gender.

Female Students

Male Students

Roadmap for Graphs

Overall Baton Rouge

Sector Analysis
- Charter Network
- School-Level

Race Analysis
- Black Students
- Hispanic Students

Subgroup Analysis
- Poverty Status
- ELL Status
- Special Ed. Status

Gender Analysis
- Female Students
- Male Students
Gender Analysis: Female Students

Learning Gains for All Baton Rouge Female Students Compared to the Average Learning Gains of Female Students Statewide, by Subject

The 0.00 line represents the average learning gains of female students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Learning Gains for Female Charter School Students and Female TPS Students in Baton Rouge Compared to the Average Learning Gains of Female Students Statewide, by Subject

The 0.00 line represents the average learning gains of female students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.

* Growth significantly stronger than that of TPS

* Growth significantly weaker than that of TPS

* Significant at $p < 0.05$

** Significant at $p < 0.01$
Learning Gains for All Baton Rouge Male Students Compared to the Average Learning Gains of Male Students Statewide, by Subject

The 0.00 line represents the average learning gains of male students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
Gender Analysis: Male Students by Sector

Learning Gains for Male Charter School Students and Male TPS Students in Baton Rouge compared to the Average Learning Gains of Male Students Statewide, by Subject

-0.03
0.01
-0.05
0
-0.02
-0.10
-0.05
0.00
0.05
30
-30
59
Growth (in Standard Deviations)
Growth (in Days of Learning)
Baton Rouge Charter Male Students
Baton Rouge TPS Male Students
Reading
Math
* Significant at p < 0.05
** Significant at p < 0.01

* Growth significantly stronger than that of TPS
* Growth significantly weaker than that of TPS

The 0.00 line represents the average learning gains of male students in the entire state. These results capture one-year academic growth for the period ending in Spring 2017.
The summary of the findings from the analysis of Baton Rouge schools is presented here.